

Figure 1

Upstream Summary Table
Table: DocsIFUpstreamChannelTable

IfIndex	WMTS ID	Slot	Card Port	Sector	RF Frequency	Modualtion Type	Upstream Downconverter LO	Transverter Offset	FEC factor	Symbol Rate	Data Rate	WMU output Frequency	WMTS input Frequency	RF Band Bottom	RF Band Top		
																MHz	KHz
1 A	1 A	A	2153.00	3200 QPSK	2100	2135.625 b		2560	5120	17.375	53.00	2151.40	2154.60				
2 A	2 A	B	215.20	200 16QAM	2100	2135.625 c		160	640	14.575	50.20	2150.10	2150.30				
3 A	2 B	B	2150.50	400 QPSK	2100	2135.625 c		320	1280	14.875	50.50	2150.30	2150.70				
4 A	2 C	B	2151.10	800 16QAM	2100	2135.625 a		640	2560	15.475	51.10	2150.70	2151.50				
5 A	2 D	B	2152.30	1600 QPSK	2100	2135.625 a		1280	2560	16.675	52.30	2151.50	2153.10				
6 A	2 E	B	2153.90	1600 16QAM	2100	2135.625 b		1280	5120	18.275	53.90	2153.10	2154.70				
7 A	2 F	B	2155.10	800 QPSK	2100	2135.625 b		640	1280	19.475	55.10	2154.70	2155.50				
8 A	3 A	B	2155.70	400 QPSK	2100	2135.625 a		320	640	20.075	55.70	2155.50	2155.90				
9 A	4 A	E	2157.00	800 QPSK	2100	2135.625 c		640	1280	21.375	57.00	2156.60	2157.40				
10 A	5 A	D	2157.60	400 QPSK	2100	2135.625 b		320	640	21.975	57.60	2157.40	2157.80				

Bold are operator inputs

select

if QPSK=2*symbol

if 16QAM=4*symbol

A modem's profile is made up of its Downstream and Upstream Ifindexes

FEC factor is the type of FEC used for that profile

Bandwidth/modulation tradeoffs

downstream assume 64QAM and 6 MHz as reference

		27	21.5	13.5
	Modulation	64 QAM	16 QAM	QPSK
	Bandwidth			
Downstream	6000	0.0	5.5	13.5
	2000	4.8	10.3	18.3
	1000	7.8	13.3	21.3

Up Stream assume 16 QAM and 2 MHz as reference

		21.5	13.5
	Modulation	16 QAM	QPSK
	Bandwidth		
	3200	0.0	8.0
	1600	3.0	11.0
	800	6.0	14.0
	400	9.0	17.0
	200	12.0	20.0

Figure 2

Figure 3

Upstream Summary Table
Table: DocsIFUpstreamChannelTable

RF Band Top		RF Band Bottom		WMTS input Frequency		WMU output Frequency		Data Rate		Symbol Rate		FEC factor		Transverter Offset		Upstream Downconverter LO		Modualtion Type		Channel Bandwidth		RF Frequency		Sector		Card Port		Slot		WMTS ID		IfIndex		RF Freq+(Bandwidth/2)	
						</td																													

A modem's profile is made up of its Downstream and Upstream Indexes FEC factor is the type of FEC used for that profile

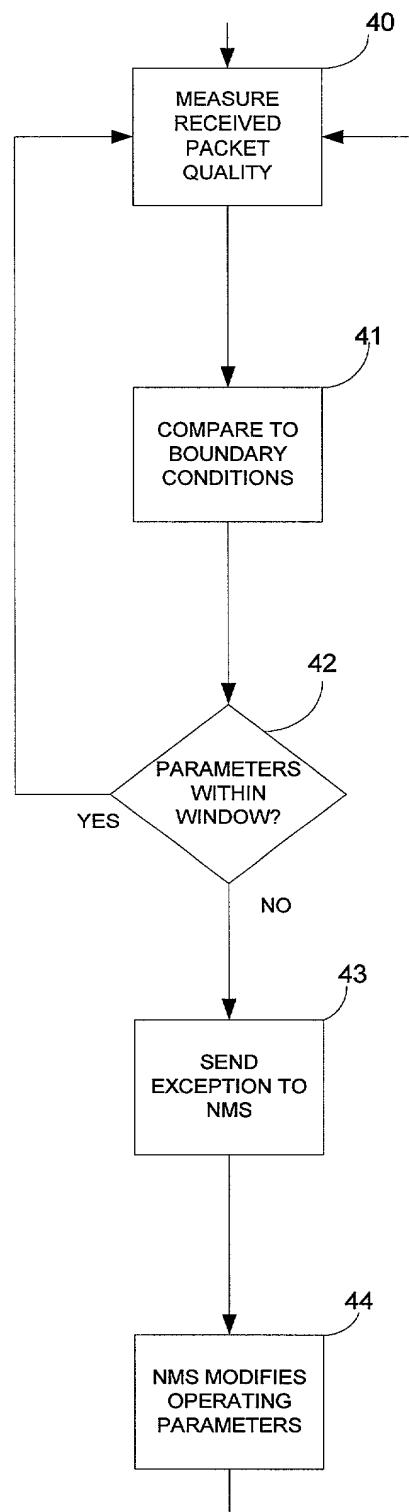


FIGURE 4

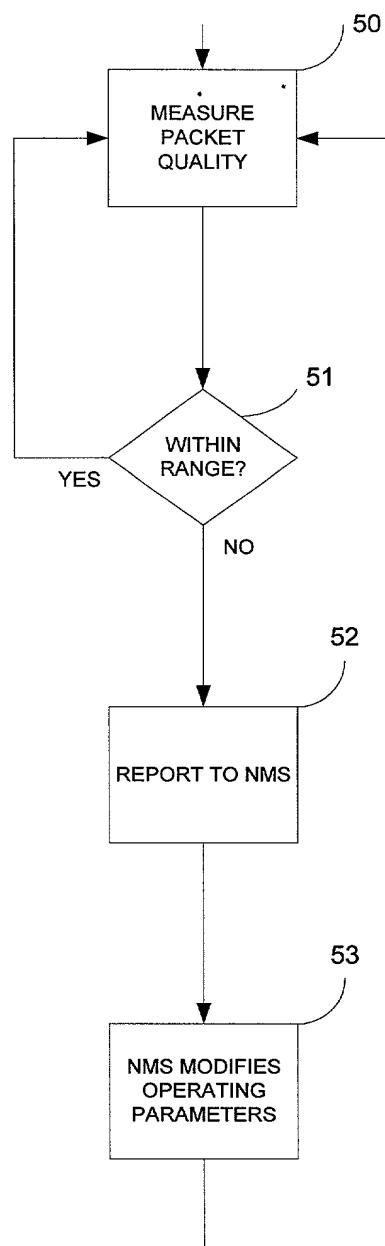


FIGURE 5